



ATGAGGTCGCTTTTGTGGGCTTCGTTGCTTTTCGGGCGTGTGGCTGGGAGGGCGCTTGTTCGCCGGATGAGTTCCCGGAGGATATTCAG 90
M R S L L W A S L L S G V L A G R A L V S P D E F P E D I O

TTGGAAGATCTGCTGGAAGGATCCCAACAGCTTGAGGACTTCGCCTATGCCTACCCCGAGCGCAATCGCGTCTTTGGTGGTAAAGCCAC 180
L E D L L E G S Q Q L E D F A Y A Y P E R N R V F G G K A H

GACGACACGGTTAACTATCTCTACGAGGAGCTGAAGAAGACTGGCTACTATGATGTCTACAAGCAGCCTCAGGTGCACCTGTGGAGCAAT 270
D D T V N Y L Y E E L K K T G Y Y D V Y K Q P Q V H L W S N

GCCGACCAGACGCTCAAGGTGGGCGATGAGGAAATCGAGGCGAAGACCATGACCTACAGTCCCAGCGTCGAGGTCACCGCCGATGTAGCC 360
A D O T L K V G D E E I E A K T M T Y S P S V E V T A D V A

TCGTCAGAAGCTGGGATGCAGCGAGGCGGATTACCCATCCGATGTGCGAGGGCAAGGTGCGCCTGATCAAGCGTGGAGAATGCCCGTTC 450
V V K N L G C S E A D Y P S D V E G K V A L I K R G E C P F

GGCGACAAGTCGGTTCTCGCTGCCAAAGCCAAGGCCGCGGCTTCGATTGTCTATAACAATGTGGCCGGATCCATGGCGGGCACCCCTTGGC 540
G D K S V L A A K A K A A A S I V Y N N V A G S M A G T L G

GCGGCGCAGAGTGATAAGGGACCGTATTCGGCCATTGTGCGGTATCAGCTTGGAGGATGGCCAGAAGCTGATCAAGCTTGTGAGGCTGGA 630
A A O S D K G P Y S A I V G I S L E D G O K L I K L A E A G

TCGGTATCTGTGGATCTGTGGGTGGATAGTAAGCAGGAGAACCGTACGACGTATAACGTTGTGCGCGCAGACGAAGGGCGGCGATCCGAAC 720
S V S V D L W V D S K O E N R T T Y N V V A Q T K G G D P N

AACGTCGTCGCGTGGGTGGCCACACGGACTCAGTCGAGGCGGGCCCTGGTATCAACGACGATGGCTCGGGCATTATTAGCAACTTGGTC 810
N V V A L G G H T D S V E A G P G I N D D G S G I I S N L V

ATTGCCAAAGCGCTCACGCAGTACTCCGTCAAGAATGCCGTGCGCTTCTCTTCTGGACAGCAGAGGAGTTCCGGTCTGCTGGGCAGCAAC 900
I A K A L T O Y S V K N A V R F L F W T A E E F G L L G S N

TACTAGTCTCCCATCTGAATGCCACCGAGCTGAACAAGATCCGACTGTACCTGAACCTCGACATGATCGCCTCACCTAACTACGCCCTC 990
Y Y V S H L N A T E L N K I R L Y L N F D M I A S P N Y A L

ATGATCTATGACGGTGATGGATCGGCGTTCAACCAGAGCGGACCGGCGGTTCCGCCAGATCGAGAACTGTTGAGGACTACTACGAC 1080
M I Y D G D G S A F N O S G P A G S A O I E K L F E D Y Y D

TCCAATCGACCTGCCTCATATCCCCACCCAGTTTGACGGACGTTCCGACTACGAGGCCCTTTATCCTGAACGGCATTCCGTCCGGTGGACTC 1170
S I D L P H I P T O F D G R S D Y E A F I L N G I P S G G L

TTACGGGCGCCGAGGGCATCATGTCCGAAGAGAACGCAAGCCGCTGGGGAGGTCAAGCCGGCGTGGCCTACGACGCCAACTACCACGCC 1260
F T G A E G I M S E E N A S R W G G O A G V A Y D A N Y H A

GCGGGAGACAACATGACCAACCTCAACCATGAAGCCTTCTGATCAACTCCAAAGCCACCGCCTTCGCCGTCGCCACCTACGCCAACGAC 1350
A G D N M T N L N H E A F L I N S K A T A F A V A T Y A N D

CTCTCCTCGATCCCCAAACGGAATACCACATCCTCCTTGACCGACGAGCCCGCACCATGCGACCATTCGGCAAGAGAGCTCCGAAGACA 1440
L S S I P K R N T T S S L H R R A R T M R P F G K R A P K T

CACGCTCAGTATCAGGATCCGGATGCTGGCATTCTCAAGTCGAGGCATAG 1491
H A H V S G S G C W H S O V E A

Fig. 1